



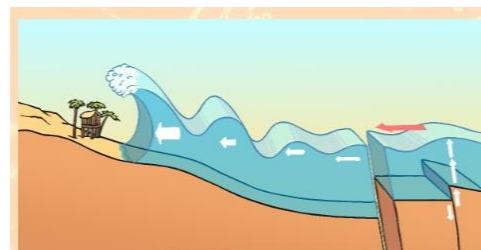
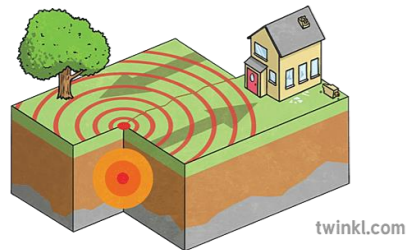
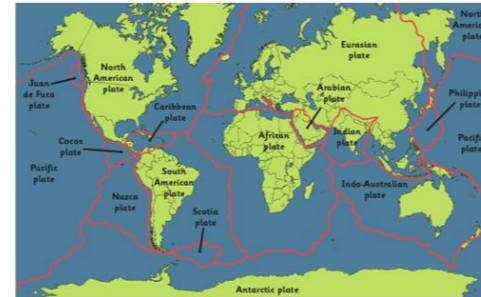
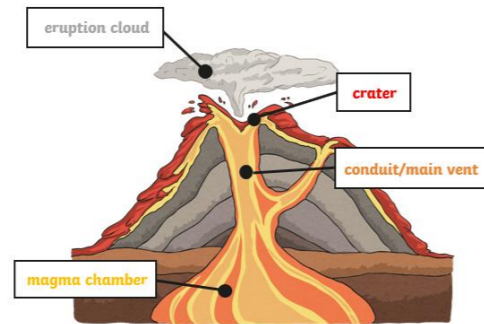
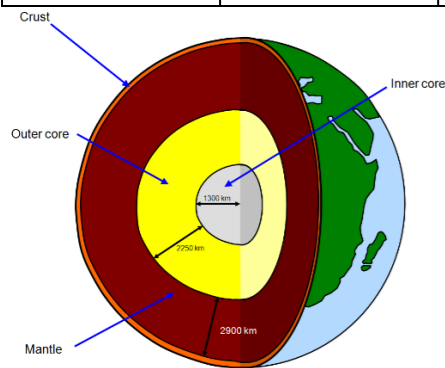
# Knowledge Organiser: Geography

## Year 3: Extreme Earth

### What causes some of the Earth's most extreme events?

#### Vocabulary

Crust	Mantle	Outer Core	Inner Core	Magma	molten	iron	Nickle
Conduit	magnetism	lava	Tectonic plate	epicentre	eruption	tremor	flow
Volcano	active	dormant	extinct	destruction	Richter scale	Tsunami	strength



#### 'Know That' Statements

By the end of each lesson, I will know and retrieve that...

##### Lesson 1

- There are 4 internal parts of the Earth:
  - The Crust is a thin layer of rock that covers the surface of the Earth.
  - The Mantle is made of hot rock like treacle.
  - The Outer Core is made of iron and some nickle. It is mostly liquid but also has some rocks. It creates Earth's magnetism.
  - The Inner Core is the hottest layer. It melts the metals in the Outer Core to create magma.

##### Lesson 2

- The names of the parts of a volcano: Magma Chamber, Conduit, Main Vent, Crater, Eruption cloud, Lava.
- Volcanoes can form on land and under the sea.
- That heat in the Earth, makes pressure build up in the Magma chamber and this forces the magma up through the conduit.
- As lava cools on the outside of the volcano, new layers of the volcano are formed.

##### Lesson 3

- That the crust of the Earth is made of tectonic plates.
- That tectonic plates can move together and away from each other.
- That volcanoes are formed where tectonic plates meet.
- That many of the Earth's volcanoes are found in an area called The Ring of Fire around the Pacific Ocean.
- That there are active volcanoes, dormant volcanoes and extinct volcanoes.

##### Lesson 4

- That earthquakes happen where two tectonic plates.
- That earthquakes can be different strengths.
- The place where an earthquake starts is called the Epicentre. The epicentre is under the ground.
- The strength of an earthquake is measured using the Richter scale. The higher the number on the Richter scale, the stronger

##### Lesson 5

- A tsunami is caused by earthquakes happening under the sea.
- Tsunamis cause a lot of destruction.
- Vegetation and buildings are damaged by the large waves of water that crash on to the land.

##### Lesson 6

In this lesson we will be preparing and sharing our presentations, showing what we have learned about the causes of Earth's most extreme events.

#### The Big Picture

##### What I will learn...

- I can name and label the physical features of the inside of the Earth.
- I can sequence the process of how a volcano is formed .
- I can locate where in the world there are volcanoes and identify how they affect the lives of people nearby.
- I can describe the physical processes that happen during an earthquake.
- I can describe the effects of a Tsunami.
- I can present information about the physical processes of the Earth using geographical vocabulary.

##### Links to future topics...

##### Year 6

- I can name the physical landmarks of North America including Physical landmarks in North America include the Aleutian Range (USA), the Colorado River (USA), the Appalachian Mountains (USA and Canada), and the Rocky Mountains (USA and Canada).
- I can describe the key physical features of Mountains and explain the process by which they are formed.

